



AMENDMENTS TO THE CLAIMS

Please amend claims 1, 6, 8-10, and 13, and cancel claims 2-5, 7, 11-12, and 14-20, as set forth in the listing of claims that follows:

1. (Currently Amended) A brake assembly comprising:

a rotor;

a brake caliper assembly including an electric actuator motor having a stator;

at least one friction pad operably attached to the caliper assembly, wherein the electric actuator motor is operable to force the friction pad into frictional engagement with the rotor; and

a heat pipe connected to the stator at least one thermal conduit extending distally from the actuator motor for dissipating heat generated by energy away from the electric actuator motor during operation.

2-5. (Cancelled)

6. (Currently Amended) The assembly of claim 1 wherein the heat pipe thermal conduit is operably attached to a suspension component.

7. (Cancelled)

8. (Currently Amended) The assembly of claim 1 wherein the heat pipe thermal conduit is manufactured substantially from a material selected from a group consisting of aluminum, copper, brass, nickel, steel, a metal, a metal alloy, and a composite.

9. (Currently Amended) The assembly of claim 1 further comprising a heatsink member operably attached to the heat pipe thermal conduit, the heatsink member including a plurality of fins.

10. (Currently Amended) A method of dissipating heat from a brake assembly, the method comprising:

providing an electric actuator motor for actuating a brake caliper assembly to force a friction pad into engagement with a rotor, said electric motor comprising a stator;

providing a heat pipe connected to the stator ~~thermal conduit extending distally from the actuator motor~~ for dissipating heat generated by the electric actuator motor during operation; and

~~conducting heat away from the actuator motor along the thermal conduit.~~

11-12. (Cancelled)

13. (Currently Amended) The method of claim 10 further comprising providing a dissipation site thermally coupled to the heat pipe and comprising fins adapted for convecting heat ~~thermal conduit.~~

14-20. (Cancelled)